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Next 2 Page(s) In Document Exempt

М	INNEAPOLIS-HONEYWELL REG	EXPOR EO.	Releas <b>e</b> Re		RRR62BO	00279R00	PRIORITY
	AERONAUTICAL DIVISION		PROPOSAL ADM-956 REV. 8/60			O EMERGENCY DESERT ROUTINE	
i			FOR USE WITH ANA BULLETIN NO. 391				
	ECP NO. #1	DATE	1	ACT NO.		N PRODUCT	ion
	Revision #2	10-9-63	E'L.	4004	X		NO
2	NAME OF COMPLETE ARTICLE			MODEL, TYPE DE		SPEC, DW	G. NO.
	Navigation Pane			GG8006	A1		PART NO.& MODEL, OR TYPE NO. OF PART
3	NAME OF PART OR LOWEST SUBASSEMBLY AFFECTED Switch Rotary						or Lowest Subassembly Affected AD 907599-2
4	NATURE OF CHANGE	ion Coloo	est Switch!! - Replace front			GFE AFFE	
Change "Destination Select Switch" - Replace front panel to define new functions, add remote panel.				YE	s NO		
	<b>→</b>					. AT CONTRACTOR'S PLANT	
5	REASON FOR CHANGE (INCL. BY EXHIBIT)	UDE EXPLANAT	ION OF ITEM	B CHECKED IN NO.	BELOW OR		CHECK ONE)
	Increase capabili	tv of sele	ecting des	stination from	n 8 to		QUESTED BY PROCURING ACTIVITY IN
	40 and to give a p						ITTATED BY CONTRACTOR FOR
	rejected. (See A					١٠ [	SPEC.NO.
						2. L	FIX FOR UNSATISFACTORY REPORT #
	ESTIMATED COST TO THE G	OVERNMENT FO	R CHANGE IN	PRODUCTION (sho	COST SEP	ARATELY AN	OTHERS D. IF FIRM, SO STATE)
				•			
6 A	EFFECT ON CONTRACT PRIC	E					
	Will Increase FL	-4004.					
7	ITEMS AFFECTED BY CHANG	,		<del></del>			
	X SAFETY	COMBAT	EFFECTIVEN	ess X	PERFORMANC	CE	X OPERATING PROCEDURE
	X CONTRACT PRI	CE	CONTRA	CT WEIGHT	DEL	LIVERY SCH	MAINTENANCE PROCEDURE
	OVERHAUL MET	HODS	SERVIC	E LIFE	IN	TERCHANGE	BILITY
	X SPARE PARTS	EXHIBIT	GROUND	SUPPORT EQUIPME	чт		
_	į.						
8	PUBLICATIONS AFFECTED B	Y CHANGE (LI	ST PUBLICAT	ION NO. ONLY)			
	Pilot's Handbook Prints - Nos. C9880 New Prints				New Prints		
	Operational Manu		3006A1	H6656	00044		
	ESTIMATED PRODUCTION EF	C98		ESCG8			
9		PECITYIIT PO	JINI AND DAI	E (IF FIRM SO IN	JICATE)		
	N/A				·····		
10	DOES CONTRACTOR RECOMME	ND CHANGE BI	MADE RETRO	<del></del> -	<del></del>	ED	X YES NO
	IS SERVICE BULLETIN REC	OMMENDED	<u>[</u>	YES	NO		
REASON FOR RECOMMENDATIONS As requested by Procuring Agency							
	LINES 11 AND 12 BELOW SHALL BE COMPLETED ONLY FOR CHANGES WHEN THE CONTRACTOR RECOMMENDS OR THE PROCURING ACTIVITY DIRECTS THAT THE CHANGE WILL BE RETROACTIVE.						
11 ESTIMATED PRICE OF MODIFICATION KITS OR PARTS (FOR PURPOSE OF ALLOCATION OF FUNDS)  ESTIMATED COST TO THE GOVERNMENT OF SP JIGS, FIXTURES, AND TEST EQUIPMENT							
Т						N/A	
12	ESTIMATED MAN-HOURS PER CHANGE IN ARTICLE	UNIT TO AC	COMPL I SH	SOURCE OF PART	S AP	PROXIMATE	DATE KITS AND PARTS WILL BE AVAILABLE
	OA FM OH 2	109را	man hou	rs Purcha	ise   3	3 Month	s After Go-Ahead
	SOURCE OF SPECIAL TOOLS	<b>–</b>		L	RDP69BE	0279R6	PAQUITA POST FIXTURES, AND
N/A N/A							

STATINTL							
	9 October	1963					

# ENGINEERING CHANGE PROPOSAL NO. 1

## REVISION NO. 2

## NATURE OF CHANGE

The modifications recommended by MH will provide the following:

- 1) Increase the 330 system destination capability from eight to forty.
- 2) Provide a positive indication if a fix is rejected.
- 3) Allows storing of fix points coordinates during preflight so the operator isn't required to insert coordinates during flight.
- 4) Allows selecting destinations from the instrument panel which is more easily reached and seen.
- 5) Maintains the capability of loading variable destinations and fixes in flight.
- 6) Allows for run-up on any known heading.

Note Item 6 will be costed separately.

These modifications will require the replacement of the present destination select rotary switch on the Nav Panel. The present face plate will be replaced with one containing the necessary engraving. An additional piece of hardware will be required to accomplish this modification, the attached drawing SK 89134 show these proposed changes.

In addition, a signal capable of driving 100 ma will be supplied to indicate a fix rejection. The indicator will be located on the vehicles malfunction panel.

During flight it will be possible to:

- 1) Select a prestored point as a destination.
- 2) Designate a prestored point as a fix point.
- 3) Select an arbitrary point as a destination.
- 4) Designate an arbitrary point as a fix point.

To select a prestored destination the DEST/FIX selector is set to the PRESTORED DEST position, the instrument panel digi switches are set to the destination member

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### Approved For Release 2002/09/03: CIA-RDP69B00279R000300150036-8

STA	ATINTL	
,	9 October Page 2	1963

desired, and the STORE button pressed.

To designate a prestored destination as a fix point, the DEST/FIX selector is set to the prestored fix positions, the instrument panel digi switches are set to the desired member, and the STORE button is pressed when the fix point crosses the horizontal line on the drift sight.

To select a variable destination, the DEST/FIX switch is set to the manual destination position, the Nav Panel digi switches are set to the desired coordinates, and the STORE button is pressed.

To select a variable fix point, the DEST/FIX switch is set to the manual fix position, the Nav Panel digi switches are set to desired coordinates, and the STORE button is pressed when the fix point crosses the horizontal line on the drift sight.

The program changes necessary to accomplish the above will be provided as part of the ECP.

Since programming changes are required to provide 40 destination capability, and the present 330 program is estimated to be only 70% efficient, MH recommends the 330 program be completely rewritten to provide the following:

- 1) Preflight procedure which is identical to the present procedure.
- 2) Program space stable azimuth capability so that preflight can be performed on any known heading.
- 3) Program reasonableness checks and redundant storage of basic quantities to provide added capability to correctly navigate in the face of intermittent troubles such as power transients.
- 4) More simple and efficient programs which will free additional computer memory.

The cost of this effort is broken out separately for your consideration.

# Approved For Release 2002/09/03: CIA-RDP69B00279R000300150036-8

STATINTL						
'	9	October	1963			

### ENGINEERING CHANGE PROPOSAL NO. 1

REVISION NO. 2

#### REASON FOR CHANGE

Safety - Changes allow selecting destinations from the instrument panel which is more easily reached. The additional destination capability allows selection of emergency fields.

Spare Parts Exhibit - The Nav Panel switch and face plate will be replaced. In addition a new piece of hardware will be provided.

Operating Procedure - Since the operating procedure has changed, the operator must be aware of his actions with regard to the DEST/FIX Nav Panel switch and the instrument panel digi switches.